*Supplement to the*
*"Proceedings of the Indian Academy of Sciences"*

# INDEX TO VOL. LI—(B)

## AUTHORS' INDEX


| | | |
|---|---|---|
| Awasthi, D. D. | .. | On a collection of macrolichens by the Indian expedition to Cho-Oyu, East Nepal, 169. |
| Bal, D. V. | .. | *See* Marathe and Bal. |
| Bhat, J. V. | .. | *See* Iyer and others. |
| Bhatnagar, O. P. | .. | *See* Singh and others. |
| Chopra, V. L. and Swaminathan, M. S. | | Induction of polyploidy in watermelon, 57. |
| Iswaran, V. | .. | Influence of combined nitrogen on fixation of nitrogen by *Azotobacter*, 32. |
| Iswaran, V. and Rao, W. V. B. | | The effect of trace elements on nitrogen fixation by *Azotobacter*, 103. |
| Iyer, V. and Kanga, Dolly, H. | | Factors influencing endotrophic sporulation in aerobic sporeforming bacillii, 133. |
| Iyer, V. N., Khambata, S. R. and Bhat, J. V. | | The characteristics and questionable taxonomic position of the oxalate-decomposing bacterium, *Vibrio extorquens*, 157. |
| Joseph, A. N. T. | .. | *See* Mathew and others. |
| Kanga, Dolly, H. | .. | *See* Iyer and Kanga. |
| Kaur (Miss), R. B. | .. | *See* Narayanan and Kaur. |
| Khambata, S. R. | .. | *See* Iyer and others. |
| Khattar, Narain | .. | *See* Mathur and others. |
| Madanmohanrao, G. | .. | Salinity tolerance and oxygen consumption of the cattle leech, *Hirudinaria granulosa*, 211. |
| Maloo (Smt.), Najoo D. and Rao, M. V. Radhakrishna | | Experimental cutaneous lesions in the albino rat, 89. |
| Marathe, V. B. and Bal, D. V. | | Observations on the ossification centres of *tricho-pterus* (Pall.), 74. |

Mathur, P. N. .. The skull of *Crocodilus palustris* Lesson, 37.

Mathur, P. N., Khattar, Narain and Zachariah, Kumari, M. — The skull of *hemirhamphus xanthopterus*, 255.

Mathur, P. N., Srivastava, R. P. and Joseph, A. N. T. — The genitalia of *oryctes rhinoceros* Linn. (coleoptera, Lamellicornia, Dynastinæ), 181.

Mathur, S. P. .. *See* Rao and Mathur.

Narayana, L. L. .. Studies in Erythroxylaceæ, I, 270.

Narayanan, E. S. and Kaur (Miss), R. B. — Two new species of the genus *Typhlodromus* Scheuten from India (Acarina: Phytoseüdae), 1.

Narayanan, E. S., Rao, B. R. Subba, Rao, M. Ramachandra and Sharma, A. K. — Biology and morphology of the immature stages of *Microtomus indicus*, new species (Braconidæ: Hymenoptera)—a parasite of *Phyllotreta cruciferæ* Goeze (Chrysomellidæ: Coleoptera), 280.

Pal, Pradyotkumar .. Developmental studies, V, 116.

Pantulu, J. V. .. Studies in the Cæsalpiniaceæ, III, 19.

Patil, R. P. .. A key to the genera of the common grasses of Lucknow and its environs, 122.

Prasad, N. .. *See* Vyas and Prasad.

Ramakrishnan, T. S. .. Notes on some fungi from South India, VIII, 164.

Ramji, M. V. .. The structure of the shoot apex and leaf initiation in *Polyalthia longifolia*, 227.

Rangaswami, G. and Venkatesan, R. — Studies on the microbial spoilage of canned food, II, III, 9, 264.

Rao, B. R. Subba .. A new species of *Xanthoencyrtus* from India, 276.

Rao, B. R. Subba and Sharma, A. K. — *See* Narayanan and others. Three new species of Braconidæ from India, 82.

Rao, M. Ramachandra .. *See* Narayanan and others.

Rao, M. V. Radhakrishna .. *See* Maloo and Rao.

Rao, W. V. B. Sundara .. *See* Iswaran and Rao.

Rao, W. V. B. Sundara and Mathur, S. P. — The use of silica gel for the enumeration and isolation of *Azotobacter* in soil, 191.

Saraswathy Royan and Subramaniam, M. K. — Differential fluorescence of the chromocentres and nucleolar equivalents of the yeast nucleus in acridine orange, 205.

Sastry, A. S. .. Some observations on the rates of proteolysis during flue-curing of tobacco leaves, 219.

Sharma, A. K. .. *See* Rao and Sharma.
*See* Narayanan and others.

Sharma, B. B. .. On the root rot of *Kochia indica* Wight, 150.

Sharma, T. R. and Shukla, J. P. Drug resistance in yeast (*Saccharomyces cerevisiæ*) action of gentian violet, 143.

Shenoi, R. S. .. Distribution of phosphates in the sediments of the Kakinada Bay, 195.

Shukla, J. P. .. *See* Sharma and Shukla.

Singh, Inderjit, Singh, Sunita Inderjit and Bhatnagar, O. P. Source of acetylcholine in the frog's heart on stimulation of the vagus nerve, 52.

The source of acetylcholine in the frog's heart on direct electrical stimulation, 249.

Singh, Sunita Inderjit .. *See* Singh and others.

Srivastava, R. P. .. *See* Mathur and others.

Subramaniam, M. K. .. The yeast nucleus, 66.
*See* Saraswathy Royan and Subramaniam.

Swaminathan, M. S. .. *See* Chopra and Swaminathan.

Venkatesan, R. .. *See* Rangaswami and Venkatesan.

Vyas, S. R. and Prasad, N. Investigations on the failure of peas in "Goradu" soils of Gujarat, 242.

Zachariah, Kumari, M. .. *See* Mathur and others.

## TITLE INDEX

Acetylcholine, source of, in the frog's heart, on direct electrical stimulation (Singh and others), 249.

Acetylcholine, source of, in the frog's heart on stimulation of the vagus nerve (Singh and others), 52.

*Azotobacter* in soil, enumeration and isolation of, the use of silica gel for (Rao and Mathur), 191.

Braconidæ from India, three new species (Rao and Sharma), 82.

Cæsalpiniaceæ, studies, III (Pantulu), 19.

Canned food, microbial spoilage, studies, II, III (Rangaswami and Venkatesan, R.), 9, 264.

*Crocodilus palustris* Lesson, the skull of (Mathur), 37.

Developmental studies, V (Pal), 116.

Endotrophic sporulation in aerobic sporeforming bacilli, factors influencing (Iyer and Kanga), 133.

Erythroxylaceæ, studies in, I (Narayana), 270.

Flue-curing of tobacco leaves, some observations on the rates of proteolysis during (Sastry), 219.

Fungi, some, from South India, notes, VIII (Ramakrishnan), 164.

"Goradu" soils of Gujarat, investigations on the failure of peas in (Vyas and Prasad), 242.

Grasses, common, of Lucknow and its environs, a key to the genera (Patil), 122.

*Hemirhamphus xanthopterus*, the skull of (Mathur and others), 255.

*Hirudinaria granulosa*, cattle leech, salinity tolerance and oxygen consumption of (Madanmohanrao), 211.

*Kochia indica* Wight, on the root rot of (Sharma), 150.

Macrolichens, on a collection of, by the Indian Expedition to Cho-Oyu, East Nepal (Awasthi), 169.

*Microctonus indicus*, new species (Braconidæ: Hymenoptera)—a parasite of *Phyllotreta cruciferæ* Goeze (Chrysomellidæ: Coleoptera), biology and morphology of the immature stages (Narayanan and others), 280.

Nitrogen fixation by *azotobacter*, effect of trace elements on (Iswaran and Rao), 103.

Nitrogen, fixation of, by *azotobacter*, influence of combined nitrogen on (Iswaran), 32.

*Orycetes rhinoceros* Linn. (Coleoptera, Lamellicornia, Dynastinæ), the genitalia (Mathur and others), 181.

Phosphates, distribution, in the sediments of the Kakinada Bay (Shenoi), 195.

*Polyalthia longifolia*, the structure of the short apex and leaf initiation in (Ramji) 227.

Rat, albino, experimental cutaneons lesions in the (Maloo and Rao), 89.

*Trichopodus trichopterus* (Pall.), ossification centres of, observations on (Marathe and Bal), 74.

*Typhlodromus* Scheuten from India (Acarina: Phytoseiidæ), two new species of the genus (Narayanan and Kaur), 1.

*Vibrio extorquens*, oxalate-decomposing bacterium, the characteristics and questionable taxonomic position (Iyer and others), 157.

Watermelon, induction of polyploidy (Chopra and Swaminathan), 57.

*Xanthoencyrtus* from India, a new species (Rao), 276.

Yeast nucleus (Subramaniam), 66.

Yeast nucleus in acridine orange, differential fluorescence of the chromocenters and nuclear equivalents (Saraswathy Royan and Subramaniam), 205.

Yeast (*Saccharomyces cerevisiæ*) action of gentian violet, drug resistance in (Sharma and Shukla), 143.